RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/088,417A_
Source: _1FW16_
Date Processed by STIC: _2/25/05_

ENTERED

IFW16

RAW SEQUENCE LISTING   DATE: 02/25/2005
PATENT APPLICATION: **US/10/088,417A**   TIME: 10:21:29

Input Set : **A:\seqlst.txt**
Output Set: **N:\CRF4\02252005\J088417A.raw**

```
 4 <110> APPLICANT: Woolfson, Derek
 5         Washaw, John
 6         Pandya, Maya
 7         Colyer, John
 9 <120> TITLE OF INVENTION: PROTEIN STRUCTURES AND PROTEIN FIBRES
12 <130> FILE REFERENCE: 000487.00012
14 <140> CURRENT APPLICATION NUMBER: 10/088,417A
15 <141> CURRENT FILING DATE: 2002-07-22
17 <150> PRIOR APPLICATION NUMBER: PCT/GB00/03576
18 <151> PRIOR FILING DATE: 2000-09-18
20 <150> PRIOR APPLICATION NUMBER: GB9922013.9
21 <151> PRIOR FILING DATE: 1999-09-17
23 <160> NUMBER OF SEQ ID NOS: 21
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 28
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: synthetic peptides
35 <400> SEQUENCE: 1
36 Lys Ile Ala Ala Leu Lys Gln Lys Ile Ala Ser Leu Lys Gln Glu Ile
37  1               5                  10                  15
38 Asp Ala Leu Glu Tyr Glu Asn Asp Ala Leu Glu Gln
39             20                  25
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 28
43 <212> TYPE: PRT
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: synthetic peptides
49 <400> SEQUENCE: 2
50 Lys Ile Arg Ala Leu Lys Ala Lys Asn Ala His Leu Lys Gln Glu Ile
51  1               5                  10                  15
52 Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
53             20                  25
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 28
57 <212> TYPE: PRT
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: synthetic peptides
63 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING   DATE: 02/25/2005
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```
64 Lys Ile Ala Ala Leu Lys Gln Lys Ile Ala Ala Leu Lys Gln Glu Ile
65  1               5                   10                  15
66 Asp Ala Leu Glu Tyr Glu Asn Asp Ala Leu Glu Gln
67             20                  25
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 28
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: synthetic peptides
77 <400> SEQUENCE: 4
78 Lys Ile Arg Ala Leu Lys Trp Lys Asn Ala His Leu Lys Gln Glu Ile
79  1               5                   10                  15
80 Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
81             20                  25
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 18
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: synthetic peptides
91 <400> SEQUENCE: 5
92 Tyr Gly Pro Gly Glu Ile Ala Ala Leu Glu Gln Glu Asn Ala Ala Leu
93  1               5                   10                  15
94 Glu Gln
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 28
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: synthetic peptides
105 <400> SEQUENCE: 6
106 Lys Ile Ala Ala Ile Lys Gln Lys Ile Ala Ala Leu Lys Gln Glu Ile
107  1               5                   10                  15
108 Asp Ala Leu Glu Tyr Glu Asn Asp Ala Leu Glu Gln
109             20                  25
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 29
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: synthetic peptides
119 <400> SEQUENCE: 7
120 Lys Ile Ala Ala Leu Lys Gln Ile Cys Ile Ala Ala Leu Lys Gln Glu
121  1               5                   10                  15
122 Ile Asp Ala Leu Glu Tyr Glu Asn Asp Ala Leu Glu Gln
123             20                  25
125 <210> SEQ ID NO: 8
126 <211> LENGTH: 28
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RAW SEQUENCE LISTING   DATE: 02/25/2005
PATENT APPLICATION: **US/10/088,417A**   TIME: 10:21:29

Input Set : **A:\seqlst.txt**
Output Set: **N:\CRF4\02252005\J088417A.raw**

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127 <212> TYPE: PRT
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: synthetic peptides
133 <400> SEQUENCE: 8
134 Lys Ile Ala Ala Leu Lys Gln Lys Ile Ala Ser Leu Lys Gln Glu Ile
135 1               5                  10                  15
136 Asp Ala Leu Glu Tyr Glu Asn Asp Ala Leu Glu Gln
137             20                  25
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 28
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: synthetic peptides
147 <400> SEQUENCE: 9
148 Lys Ile Ser Ala Leu Lys Trp Lys Asn Ala Ser Leu Lys Gln Glu Ile
149 1               5                  10                  15
150 Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
151             20                  25
153 <210> SEQ ID NO: 10
154 <211> LENGTH: 28
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: synthetic peptides
161 <400> SEQUENCE: 10
162 Lys Ile Arg Ala Leu Lys Trp Lys Asn Ala His Leu Lys Gln Glu Ile
163 1               5                  10                  15
164 Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
165             20                  25
167 <210> SEQ ID NO: 11
168 <211> LENGTH: 29
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: synthetic peptides
175 <400> SEQUENCE: 11
176 Ile Cys Ile Arg Ala Leu Lys Ala Lys Asn Ala His Leu Lys Gln Glu
177 1               5                  10                  15
178 Ile Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
179             20                  25
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 29
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: synthetic peptides
189 <400> SEQUENCE: 12
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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/088,417A**

DATE: 02/25/2005
TIME: 10:21:29

Input Set : **A:\seqlst.txt**
Output Set: **N:\CRF4\02252005\J088417A.raw**

```
190 Ile Thr Ile Arg Ala Leu Lys Cys Lys Asn Ala His Leu Lys Gln Glu
191 1               5                   10                  15
192 Ile Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
193             20                  25
195 <210> SEQ ID NO: 13
196 <211> LENGTH: 28
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: synthetic peptides
203 <400> SEQUENCE: 13
204 Glu Ile Asp Ala Leu Glu Tyr Glu Asn Asp Ala Leu Glu Gln Lys Ile
205 1               5                   10                  15
206 Ala Ala Leu Lys Gln Lys Ile Ala Ser Leu Lys Gln
207             20                  25
209 <210> SEQ ID NO: 14
210 <211> LENGTH: 7
211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: synthetic peptides
217 <400> SEQUENCE: 14
218 Leu Ala Ala Leu Ala Ala Ala
219 1               5
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 43
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: synthetic peptides
229 <400> SEQUENCE: 15
230 Lys Ile Ala Ala Leu Lys Gln Lys Ile Ala Ser Leu Lys Gln Glu Ile
231 1               5                   10                  15
232 Asp Ala Leu Glu Tyr Glu His His Asp Ala Leu Glu Gln Lys Ile Ala
233             20                  25                  30
234 Ala Leu Lys Gln Lys Ile Ala Ser Leu Lys Gln
235         35                  40
237 <210> SEQ ID NO: 16
238 <211> LENGTH: 42
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: synthetic peptides
245 <400> SEQUENCE: 16
246 Glu Ile Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln Lys Ile
247 1               5                   10                  15
248 Arg Ala Leu Lys Ala Lys Gln Ala Lys Leu Lys Gln Glu Ile Ala Ala
249             20                  25                  30
250 Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
```

```
251         35                    40
253 <210> SEQ ID NO: 17
254 <211> LENGTH: 29
255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: synthetic peptides
261 <400> SEQUENCE: 17
262 Glu Ile Asp Ala Leu Glu Tyr Glu Gln Asn Asp Ala Leu Glu Gln Lys
263 1               5                   10                  15
264 Ile Ala Ala Leu Lys Gln Lys Ile Ala Ser Leu Lys Gln
265             20                  25
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 29
269 <212> TYPE: PRT
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: synthetic peptides
275 <400> SEQUENCE: 18
276 Lys Ile Arg Ala Leu Lys Ala Lys Phe Asn Ala His Leu Lys Gln Glu
277 1               5                   10                  15
278 Ile Ala Ala Leu Glu Gln Glu Ile Ala Ala Leu Glu Gln
279             20                  25
281 <210> SEQ ID NO: 19
282 <211> LENGTH: 7
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: synthetic
W--> 289 <221> NAME/KEY: VARIANT
290 <222> LOCATION: (1)...(1)
291 <223> OTHER INFORMATION: lysine or glutamate
W--> 293 <221> VARIANT
294 <222> LOCATION: (2)...(2)
295 <223> OTHER INFORMATION: isoleucine or asparagine
W--> 297 <221> VARIANT
298 <222> LOCATION: (3)...(3)
299 <223> OTHER INFORMATION: alanine or arginine
W--> 301 <221> VARIANT
302 <222> LOCATION: (6)...(6)
303 <223> OTHER INFORMATION: lysine or glutamate
W--> 305 <221> VARIANT
306 <222> LOCATION: (7)...(7)
307 <223> OTHER INFORMATION: alanine, glutamine, or gluatamate
W--> 309 <400> 19
W--> 310 Xaa Xaa Xaa Ala Leu Xaa Xaa
311 1               5
313 <210> SEQ ID NO: 20
314 <211> LENGTH: 28
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 02/25/2005
PATENT APPLICATION: US/10/088,417A   TIME: 10:21:30

Input Set : A:\seqlst.txt
Output Set: N:\CRF4\02252005\J088417A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; Xaa Pos. 1, 2, 3, 6, 7
Seq#:20; Xaa Pos. 3,4,7,10,11,14,17,18,21,24,25,28
Seq#:21; Xaa Pos. 3,4,7,10,11,14,17,18,21,24,25,28

VERIFICATION SUMMARY   DATE: 02/25/2005
PATENT APPLICATION: **US/10/088,417A**   TIME: 10:21:30

Input Set : **A:\seqlst.txt**
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```
L:15  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:289 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:293 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:297 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:301 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:309 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:321 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:327 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:333 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:339 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:345 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:351 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:357 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:363 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:369 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:383 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:389 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:395 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:401 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:407 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:413 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:419 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:425 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:431 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
```